Product Sheet

NVIDIA® introduces the GeForce™ 6500 GPUs, featuring a revolutionary design that delivers best-in-class performance on today's hottest games and applications. The only GPU in its class to support Microsoft® DirectX® 9.0 Shader Model 3.0, the GeForce 6500 powers the latest effects without compromising performance. In addition, support for the latest bus architecture--PCI Express--increases both graphics and overall system performance.

Now, NVIDIA announces select GeForce 6500 GPUs with TurboCache technology: delivering advanced GeForce6™ Series' features and turbocharged system performance to PCs.

Memory Bandwidth	**Chipset**
13.3 GB/s	6500
Memory Interface	**Memory**
64-bit	128 MB
Vertices Per Second	**Bus Type**
300 Million	PCI-E
Memory Date Rate	**Highlighted Features**
333 MHz	Low Profile Compatible [bracket not included]
Pixels per Clock (peak)	
4	
Textures per Pixel	
4	
RAMDACs	
400 MHz	
Fill Rate	
1.6 Billion Texels/sec.	
Graphics Core	
1.6 Billion Texels/sec.	

Dual 400MHz RAMDACs

Blazing-fast RAMDACs support dual QXGA displays with ultra-high, ergonomic refresh rates--up to 2048x1536@85Hz.

DVI Support

Drives the new generation of desktop digital flat panel displays and projectors.

Microsoft® DirectX® 9.0 Shader Model 3.0 Support

Ensures top-notch compatibility and performance for all DirectX® 9 applications, including Shader Model 3.0 titles.

NVIDIA® CineFX™ 3.0 Technology

Powers the next generation of cinematic realism. Full support for Microsoft® DirectX® 9.0 Shader Model

3.0 enables stunning and complex special effects. Next-generation shader architecture delivers faster and smoother game play.

NVIDIA® Digital Vibrance Control™ (DVC) 3.0 Technology

Allows the user to adjust color controls digitally to compensate for the lighting conditions of their workspace, in order to achieve accurate, bright colors in all conditions.

NVIDIA® ForceWare™ Unified Driver Architecture (UDA)

Delivers a proven record of compatibility, reliability, and stability with the widest range of games and applications. ForceWare ensures the best out-of-box experience for every user and delivers continuous performance and feature updates over the life of NVIDIA GeForce GPUs. Includes full support for PCI Express and AGP.

NVIDIA® PureVideo™ Technology

The combination of high-definition video processors and NVIDIA DVD decoder software delivers unprecedented picture clarity, smooth video, accurate color, and precise image scaling for all video content to turn your PC into a high-end home theater. (Feature requires supported video software.)

NVIDIA® TurboCache™ Technology

Shares the capacity and bandwidth of dedicated video memory and dynamically available system memory for turbocharged performance and larger total graphics memory.

nView™ Multi-Display Technology

The nView hardware and software technology combination delivers maximum flexibility for multi-display options, and provides unprecedented end-user control of the desktop experience.

OpenGL™ 1.5 Optimizations and Support

Ensure top-notch compatibility and performance for all OpenGL applications.

PCI Express™ Support

Designed to run perfectly with the next-generation PCI Express bus architecture. This new bus doubles the bandwidth of AGP 8X delivering over 4 GB/sec. in both upstream and downstream data transfers.